Acta Physiologica Scandinavica

Editorial Board

N. A. Thorn København M. R. Bergström Helsinki J. Jansen Oslo D. Ottoson Stockholm

B. Uvnäs (Editor) Stockholm

Contents

Vol. 119, No. 1, September 1983

- 1 KARLSSON, J. & SMITH, H. J. The effect of lumbar sympathectomy on fiber composition, contractility of skeletal muscle and regulation of central circulation in dogs
- 7 LUNDBLAD, L., ÄNGGÄRD, A. & LUND-BERG, J. M. Effects of antidromic trigeminal nerve stimulation in relation to parasympathetic vasodilation in cat nasal mucosa
- 15 SOLLEVI, A. & FREDHOLM, B. B. Influence of adenosine on the vascular responses to sympathetic nerve stimulation in the canine subcutaneous adipose tissue
- 25 BJURSTEDT, H., ROSENHAMER, G., BALLDIN, U. & KATKOV, V. Orthostatic reactions during recovery from exhaustive exercise of short duration
- 33 RÖKAEUS, Å. & AL-SAFFAR, A. The importance of bile and pancreatic juice for fatinduced release of neurotensin-like immuno-

- reactivity (NTLI) from the small intestine of the rat
- 39 SJÖVALL, H., REDFORS, S., JODAL, M. & LUNDGREN, O. On the mode of action of the sympathetic fibres on intestinal fluid transport: Evidence for the existence of a glucose-stimulated secretory nervous pathway in the intestinal wall
- 49 LUNDBERG, J. M., MARTLING, C.-R. & SARIA, A. Substance P and capsaicin-induced contraction of human bronchi
- 55 HARI, R., ANTERVO, A. & SALMI, T. Slow EEG potentials preceding self-paced plantar flexions of hand and foot
- 61 TESCH, P. A., KOMI, P. V., JACOBS, I., KARLSSON, J. & VIITASALO, J. T. Influence of lactate accumulation of EMG frequency spectrum during repeated concentric contractions
- 69 SJÖQVIST, A., FAHRENKRUG, J., JODAL,

- M. & LUNDGREN, O. Effect of apamin on release of vasoactive intestinal polypeptide (VIP) from the cat intestines
- 77 VALLGREN, S., EKELUND, M. & HÅ-KANSON, R. Mechanism of inhibition of gastric acid secretion by vagal denervation in the rat
- 81 MOLAUG, M., GEIRAN, O. & KIIL, F. Dynamics of the interventricular septum and free ventricular walls during selective left ventricular volume loading in dogs
- 91 SWERUP, C., RYDQVIST, B. & OTTOSON, D. Time characteristics and potential dependence of early and late adaptation in the crustacean stretch receptor

Short Communications

- 101 LINDSTRÖM, S. Interneurones in the lateral geniculate nucleus with monosynaptic excitation from retinal ganglion cells
- 105 ÅRHEM, P. & VAN HELDEN, D. Effects of aliphatic alcohols on myelinated nerve membrane
- 109 AHLSÉN, G., LINDSTRÖM, S. & LO, F.-S. Maintained binocular connexions to perigeniculate neurones in visually deprived cats

Appended Supplement

Supplementum 518. CHASIOTIS, D. The regulation of glycogen phosphorylase and glycogen breakdown in human skeletal muscle

Vol. 119, No. 2, October 1983

- 113 NORJAVAARA, E., SELSTAM, G., DAMBER, J.-E. & JOHANSSON, B.-M. In vivo effect of noradrenaline on the cyclic AMP level in rat corpora lutea
- 117 MÖRLIN, C., WALLIN, B. G. & ERIKS-SON, B. M. Muscle sympathetic activity and plasma noradrenaline in normotensive and hypertensive man
- 123 SZECÓWKA, J., TATEMOTO, K., RAJA-MÄKI, G. & EFENDIĆ, S. Effects of PYY and PP on endocrine pancreas
- 127 SELLIN, L. C., THESLEFF, S. & DAS-GUPTA, B. R. Different effects of types A and B botulinum toxin on transmitter release at the rat neuromuscular junction

- 135 HEINONEN, E., GRIPENBERG, J. & JANS-SON, S.-E. A spin label study on the effect of dibutyryl cyclic AMP on synaptic plasma membranes isolated from rat brain
- 139 WENNERGREN, G. & WENNERGREN, M. Neonatal breathing control mediated via the central chemoreceptors
- 147 VIKSE, A., HOLDAAS, H., HARTMANN, A. & KIIL, F. Segmental distribution of vascular resistances during ureteral occlusion. The vasoconstrictive effects of angiotensin and CaCl₂ differ from those of catecholamines and renal nerve stimulation
- 159 HARTMANN, A., LANGBERG, H., DI-BONA, G. & KIIL, F. Evidence for bicarbonate-dependent magnesium reabsorption
- 169 EKSTRÖM, J., MÅNSSON, B. & TOBIN, G. Vasoactive intestinal peptide evoked secretion of fluid and protein from rat salivary glands and the development of supersensitivity
- 177 BÁRÁNY, E. The liver-like anion transport system in the rabbit uvea does not eliminate iodipamide from the eye
- 181 UVNÄS-MOBERG, K. & ERIKSSON, M. Release of gastrin and insulin in response to suckling in lactating dogs
- 187 ANDERSEN, F. R., SEJERSTED, O. M. & ILEBEKK, A. A model for quantitative sampling of myocardial venous blood in the pig
- 197 ILEBEKK, A., ANDERSEN, F. R., KJELD-SEN, S. E. & EIDE, I. Dopamine release from the porcine myocardium

Short Communications

- 203 LAGERSTRAND, G. Effects of ouabain on the mechanical performance of heart muscle in the frog, *Rana temporaria*, during hypoxia and subsequent recovery at pH 6.6
- 207 DELBRO, D., LISANDER, B., FÄNDRIKS, L. & ANDERSSON, S. A. Vagally induced tachycardia after nicotinic blockade. The involvement of substance P and catecholamines

Appended Supplements

- Supplementum 519. HAUGEN, P. Latency relaxation and short-range elasticity in single muscle fibres of the frog
- Supplementum 520. SWERUP, C. On the ionic mechanisms of adaptation in an isolated

mechanoreceptor—an electrophysiological study

Vol. 119, No. 3, November 1983

- 209 SELSTAM, G. & DAMBER, J.-E. Measurement of blood flow to the ventral prostate in the rat with radioactive microspheres: Effects of estradiol-17β and human chorionic gonadotrophin
- 213 AUER, L. M., EDVINSSON, L. & JOHANS-SON, B. B. Effect of sympathetic nerve stimulation and adrenoceptor blockade on pial arterial and venous calibre and on intracranial pressure in the cat
- 219 BOSCO, C. & RUSKO, H. The effect of prolonged skeletal muscle stretch-shortening cycle on recoil of elastic energy and on energy expenditure
- 225 UVNÄS, B. & ÅBORG, C.-H. Cation exchange—a common mechanism in the storage and release of biogenic amines stored in granules (vesicles)? I. Comparative studies on the uptake of sodium and biogenic amines by the weak cation (carboxyl) exchanger Amberlite IRC-50 and Sephadex C-50 and by biogenic (granule-enriched) materials in vitro
- 235 KOSKINEN, L.-O. & BILL, A. Regional cerebral, ocular and peripheral vascular effects of naloxone and morphine in unanesthetized rabbits
- 243 LUNDBERG, J. M., BRODIN, E. & SARIA, A. Effects and distribution of vagal capsaicinsensitive substance P neurons with special reference to the trachea and lungs
- 253 NIELSEN, H. V. External pressure-blood flow relations during limb compression in man
- 261 SALMINEN, A., KOMULAINEN, J., AHO-MÄKI, E., KAINULAINEN, H., TAKALA, T. & VIHKO, V. Effects of endurance training on alkaline protease activities in rat skeletal muscles
- 267 SCHADY, W. J. L. & TOREBJÖRK, H. E. Projected and receptive fields: A comparison of projected areas of sensations evoked by intraneural stimulation of mechanoreceptive units, and their innervation territories
- 277 SCHADY, W. J. L., TOREBJÖRK, H. E. & OCHOA, J. L. Cerebral localisation function from the input of single mechanoreceptive units in man

- 287 EKSTRÖM, J. & ROSENGREN, E. Changes in diamine and polyamine metabolism in the duct-ligated submaxillary and sublingual glands of the rat
- 293 TAXT, T., TØNNESEN, H. & JANSEN, J. K. S. Neonatal treatment with 6-OH dopamine and the elimination of polyneuronal innervation of skeletal muscle in the rat

Short Communications

- 299 TALO, A., JALONEN, T. O. & KOHONEN, J. Single channel ion currents in embryonic cells of the newt (*Triturus vulgaris*) isolated without enzymatic treatment
- 303 OHISALO, J. J., KESO, L. & EHNHOLM, C. Apolipoproteins AI and AII in human bile
- 305 BJÖRK, J., LINDBOM, L., GERDIN, B., SMEDEGÅRD, G., ARFORS, K.-E. & BEN-VENISTE, J. Paf-acether (platelet-activating factor) increases microvascular permeability and affects endothelium-granulocyte interaction in microvascular beds
- 309 AGNATI, L. F., FUXE, K., BENFENATI, F., BATTISTINI, N., HÄRFSTRAND, A., HÖKFELT, T., CAVICCHIOLI, L., TATE-MOTO, K. & MUTT, V. Failure of neuropeptide Y in vitro to increase the number of α₂-adrenergic binding sites in membranes of medulla oblongata of the spontaneous hypertensive rat
- 313 SOHTELL, M., KARLMARK, B. & UL-FENDAHL, H. FITC-inulin as a kidney tubule marker in the rat
- 317 GRANSBERG, L. & KNUTSSON, E. Determination of dynamic muscle strength in man with acceleration controlled isokinetic movements

Appended Supplement

Supplementum 521. HALBERTSMA, J. The stride cycle of the cat: The modelling of locomotion by computerized analysis of automatic recordings

Vol. 119, No. 4, December 1983

321 DAHLKVIST, H. H., ARNQVIST, H. J. & NORRBY, K. Effect of elevated substrates on substrate oxidation in normal and diabetic aorta

- 327 HOPE, A. & CLAUSEN, G. Renal blood flow during unilateral ureteral obstruction. Effects of reduced perfusion pressure, acetylcholine, and tromboxane A₂ blockers in obstructed and unobstructed rat kidneys
- 335 SAMUELSON, U., SJÖSTRAND, N. O. & KLINGE, E. Correlation between electrical and mechanical activity in myogenic and neurogenic control of the bovine retractor penis muscle
- 347 AGNATI, L. F., FUXE, K., CALZA, L., BENFENATI, F., CAVICCHIOLI, L., TOF-FANO, G. & GOLDSTEIN, M. Gangliosides increase the survival of lesioned nigral dopamine neurons and favour the recovery of dopaminergic synaptic function in striatum of rats by collateral sprouting
- 365 ROVAMO, J. Cortical magnification factor and contrast sensitivity to luminance-modulated chromatic gratings
- 373 FALK, A., MYRVOLD, H. E. & HAG-LUND, U. Sympathetico-adrenergic influences on the small intestinal vascular reactions in experimental septic shock
- 381 NÄRHI, M. & HAEGERSTAM, G. Intradental nerve activity induced by reduced pressure applied to exposed dentine in the cat
- 387 TØRRING, O. & SJÖBERG, H.-E. A calcium clamp technique in man
- 393 VIRTANEN, A., NÄRHI, M., HUOPA-NIEMI, T. & HIRVONEN, T. Thresholds of intradental A- and C-nerve fibres in the cat to electrical current pulses of different duration
- 399 NÄRHI, M., VIRTANEN, A., HIRVONEN, T. & HUOPANIEMI, T. Comparison of electrical thresholds of intradental nerves and jawopening reflex in the cat
- 405 HULTBORN, H. & MALMSTEN, J. Changes

- in segmental reflexes following chronic spinal cord hemisection in the cat. I. Increased monosynaptic and polysynaptic ventral root discharges
- 423 HULTBORN, H. & MALMSTEN, J. Changes in segmental reflexes following chronic spinal cord hemisection in the cat. II. Conditioned monosynaptic test reflexes
- 435 MALMSTEN, J. Time course of segmental reflex changes after chronic spinal cord hemisection in the rat
- 445 EKSTRÖM, J., MÅNSSON, B., TOBIN, G., GARRETT, J. R. & THULIN, A. Atropineresistant secretion of parotid saliva on stimulation of the auriculo-temporal nerve

Short Communications

- 451 HEDLUND, H., FÄNDRIKS, L., DELBRO, D. & FASTH, S. Blockade of non-cholinergic non-adrenergic colonic contraction in response to pelvic nerve stimulation by large doses of α, β-methylene ATP
- 455 WIGSTRÖM, H. & GUSTAFSSON, B. Heterosynaptic modulation of homosynaptic longlasting potentiation in the hippocampal slice
- 459 AGNATI, L. F., FUXE, K., BENFENATI, F. & BATTISTINI, N. Neurotensin in vitro markedly reduces the affinity in subcortical limbic ³H-N-propylnorapomorphine binding sites
- 463 JOHANSSON, G. G., KARONEN, S.-L. & LAAKSO, M.-L. Reversal of an elevated plasma level of prolactin during prolonged psychological stress

No Supplement appended

